

Schedule of Events (Chemistry/Physics Room 130)

Wednesday, May 14

- 8:30 - 9:00 a.m. Registration
- 9:00 - 9:10 a.m. Welcome
- 9:10 - 10:00 a.m. **Maya Paczuski**, University of Calgary, Canada
Complexity in living and non-living matter-A physicist looks at life (invited)
- 10:00 - 10:20 a.m. **Rahul Kulkarni**, Virginia Tech, Blacksburg, Virginia
Modeling of processes governing subcellular protein localization in E. coli
- 10:20 - 10:40 a.m. Coffee break
- 10:40 - 11:30 a.m. **Mark Novotny**, Mississippi State University
Far from equilibrium processes in magnetic nanoparticles and thin films (invited)
- 11:30 - 11:50 a.m. **Zhi-Feng Huang**, Wayne State University, Detroit, Michigan
Multiscale modeling of strained film epitaxy: Island formation and dislocation nucleation
- 11:50 - 12:10 p.m. **Hill Thompson**, Florida State University, Tallahassee, Florida
Resolution-dependent mechanisms for bimodal switching time distributions in simulated Fe nanopillars
- 12:10 - 2:00 p.m. Lunch
- 2:00 - 2:50 p.m. **Peter Grassberger**, University of Calgary, Canada
Records, causal networks, and earthquakes (invited)
- 2:50 - 3:10 p.m. **Hang-Hyun Jo**, Korea Institute for Advanced Study
Relevance of abelian symmetry and stochasticity in directed sandpile models
- 3:10 - 3:30 p.m. Coffee break
- 3:30 - 4:20 p.m. **Leticia Cugliandolo**, Université Pierre et Marie Curie, Paris VI, France
Exact results in curvature driven coarsening (invited)
- 4:20 - 4:40 p.m. **Hyun Keun Lee**, Korea Institute for Advanced Study

Recurrent character of biased random walk on regular lattice

4:40 - 5:00 p.m.

David Adams, University of Michigan, Ann Arbor, Michigan

Signpost method for obtaining the harmonic measure of 2D percolation clusters

Thursday, May 15

9:00 - 9:50 a.m.

Reinhard Lipowsky , Max Planck Institute of Colloids and Interfaces, Potsdam, Germany

Molecular Motors: Energy conversion, cargo transport, and traffic phenomena (invited)

9:50 - 10:10 a.m.

Creighton Thomas, Syracuse University, Syracuse, New York

Using patchwork dynamics to simulate glassy systems

10:10 - 10:30 a.m.

Coffee break

10:30 - 11:20 a.m.

Eva Andrei, Rutgers University, Piscataway, New Jersey

Ageing memory and glassiness of driven vortex matter (invited)

11:20 - 11:40 a.m.

Gregory G. Kenning, Indiana University of Pennsylvania, Indiana, PA

The effects of initial conditions on physical aging in spin glasses

11:40 - 12:00 noon

Paolo Sibani, University of Southern Denmark, Odense, Denmark

Intermittent linear response and spontaneous fluctuations in off-equilibrium aging dynamics

12:00 - 2:00 p.m.

Lunch

2:00 - 2:50 p.m.

Greg McKenna, Texas Tech University, Lubbock, Texas

Ageing and structural recovery in 'concentration' glasses: Comparisons with 'temperature' glasses (invited)

2:50 - 3:10 p.m.

Stephan A. Mackowiak, Columbia University, New York, NY

Single molecule study of dynamics near the glass transition

3:10 - 3:30 p.m.

Coffee break

3:30 - 4:20 p.m.

Katharina Vollmayr-Lee , Bucknell University, Lewisburg, Pennsylvania

Self-organized criticality below the glass transition (invited)

4:20 - 5:10 p.m.

Hervé Marand, Virginia Tech, Blacksburg, Virginia

The physical ageing of crystallizable polymers above the glass transition temperature (invited)

5:10 - 6:40 p.m. Poster session

Friday, May 16

9:00 - 9:50 a.m. **Hernan Makse**, City College of New York, New York

Statistical mechanics of jammed matter (invited)

9:50 - 10:10 a.m. **Stefan Boettcher**, Emory University, Atlanta, Georgia

Unjamming local search heuristics through extremal driving

10:10 - 10:30 a.m. Coffee break

10:30 - 11:20 a.m. **Dragana Popovic**, National High Magnetic Field Laboratory, Tallahassee, Florida

Glassy dynamics of electrons near the metal-insulator transition in two dimensions (invited)

11:20 - 12:10 p.m. **Jeff Olafsen**, Baylor University, Waco, Texas

Recapturing thermostistical behavior in systems driven far from equilibrium (invited)

12:10 - 12:30 p.m. **Brian Utter**, James Madison University, Harrisonburg, Virginia

Jamming in granular systems with imposed vibrations

12:30 - 2:30 p.m. Lunch

2:30 - 6:00 p.m. Trip/hike to the Cascades waterfall